

PATENT APPLICATION CS-7890

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICAT	ION OF)	
MICHAEL	R. SCHWARZ) GROUP NO.:)	1616
SERIAL N	JMBER: 10/623,402)	
FILED:	JULY 18, 2003)	
TITLE:	METHOD OF MINIMIZING HERICIDAL INJURY) }	

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements.

Enclosed are copies of foreign documents and articles listed on the attached Form PTO-1449.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an enveloped addressed to: Commissioner for Patents,
Alexandria, VA 22313-1450 on 6/21/04
Date
Raymond J. Harmuth, Reg. No. 33,896
Name of applicant, assignee or Registered Representative
// // Signature
Uune 21, 2004
Date

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

Raymond J. Harmuth

Attorney for Applicants Reg. No. 33,896

Bayer CropScience LP 100 Bayer Road Pittsburgh, Pennsylvania 15205-9741 (412) 777-3916 FACSIMILE PHONE NUMBER: (412) 777-3902 s:\bsh\RJH038

Sheet 1 of 7

Name	Form PTO 1449 U.S. Department of Commerce Patent and Trademark Office PST OF PRIOR ART CITED BY APPLICANT					Atty. Docket No. Serial No. CS7890 10/623,402					
July 18, 2003 Tele	-, \ - E E	Use)	Several Sheets If Nece	ssary)	•		Michael R. Schwarz		Group		
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AA 4,531,002 07/23/85 Harris 544 54 AB 4,590,272 05/20/86 Shiokawa et al 544 335 AC 4,606,862 08/19/86 Harris 280 402.5 AD 4,647,570 03/03/87 Shiokawa et al 514 341 AE 4,678,795 07/10/87 Shiokawa et al 514 341 AE 4,678,795 07/14/87 Shiokawa et al 514 341 AF 4,680,294 07/14/87 Shiokawa et al 514 256 AG 4,687,838 08/18/87 Marria et al 514 256 AI 4,742,060 05/03/88 (Bel. to corresp. to EP 154 178) 544 AI 4,742,060 05/03/88 (Bel. to corresp. to EP 199 972) 544 54 AI 4,742,47 09/27/88 (Bel. to corresp. to EP 190 060) 514 252 AI 4,742,47 09/27/88 (Bel. to corresp. to EP 153 655) 514 252 AI 4,742,47 09/27/88 (Bel. to corresp. to EP 154 178) 514 252 AK 4,803,277 02/07/89 (Bel. to corresp. to EP 150 600) 514 256 AI 4,774,247 09/27/88 (Bel. to corresp. to EP 153 655) 514 256 AI 4,774,247 09/27/88 (Bel. to corresp. to EP 153 655) 514 256 AI 4,774,247 09/27/88 (Bel. to corresp. to EP 153 655) 514 256 AI 4,803,277 02/07/89 (Bel. to corresp. to EP 153 655) 514 256 AI 4,803,277 02/07/89 (Bel. to corresp. to EP 259 738) 332 FOREIGN PATENT DOCUMENTS 514 256 AI 4,803,277 02/07/89 30/207/	EXAMINER INITIAL		DOCUMENT NUME	BER	DATE		NAME		SUBCLASS	IF APF	PRO-
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	Form PTO 1449	U.S. Department of Commerce	Atty. Docket No.	Serial No.	
	Rev. 7-80	Patent and Trademark Office	CS7890	10/623,402	
	LIST O	PRIOR ART CITED BY APPLICANT	Applicant		
	(U:	se Several Sheets If Necessary)	Michael R. Schwarz		
			Filing Date	Group	
į			July 18, 2003	1616	

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			U.S. PATE	ENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DAT IF APPRO- PRIATE
	AA	4,.806,553	02/21/89	(Bel. to corresp. to EP Shiokawa et al	254 859) 514	332	
	AB	4,812,454	03/1/4/89	(Bel. to corresp. to EP Shiokawa et al	212 600) 514	256	
-	AC	4,812,571	03/14/89	(Bel. to corresp. to EP Shiokawa et al	163 855) 546	296	
- de	AD	4,845,106	07/04/89	(Bel. to corresp. to EP Shiokawa et al	192 060) 514	342	
	AE	4,849,432	07/18/89	(Bel. to corresp. to EP Shiokawa et al	235 725) 514	341	
	AF	4,882, 344	11/21/89	(Bel. to corresp. to EP Shiokawa et al	259 738) 514	342	
	AG	4,914,113	04/03/90	(Bel. to corresp. to EP Shiokawa et al	315 826) 514	333	
	АН	4,918,086	04/17/90	(Bel. to corresp. to EP Gsell	302 833) 514	351	
	AI	4,918,088	04/17/90	(Bel. to corresp. to BR Gsell	8083621) 514	357	
	AJ	4,948,798	08/14/90	(Bel. to corresp. to EP Gsell	306 696) 514	275	
	AK	4,963,572	10/16/90	(Bel. to corresp. to EP Gsell	303 570) 514	357	

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	DOCUME	NT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	
							Yes	No*
AL	3-279359		12/10/91	Japan (Abstract attached)				x
 AM	4-9371	/	01/14/92	Japan (Abstract attached)			•	x
AN	3-246283	No	11/01/99	Japan (Abstract attached only)				
AO	5-139921		06/08/93	Japan (Translation attached)			×	
AP	3-261704	/	11/21/91	Japan (Abstract attached)				x

	OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)
	Weed Control: as a Science, (month unavailable) 1961, pages 81-96, G.C. Klingman, "Surface
AR	Active Agents"
	Beltwide Cotton Conferences, Vol. 2, (month unavailable) 1998, pages 1177-1180,
AS	D. Ames Herbert, Jr., "Evaluation of Thrips Damage of Maturity and Yield of Virginia Cotton"
	Arthropod Management Tests, Vol. 20, (month unavailable) 1995, pages 209-211, J.R. Reed and
AT	C.S. Jackson, "Insecticides with Disyston 15G as Safener for Command Herbicide on Cotton in
	Mississippi, 1994"
EXAMINER	DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO 1449	U.S. Department of Commerce	Atty. Docket No.	Serial No.			
Rev. 7-80	Patent and Trademark Office	CS7890	10/623,402			
LIST C	F PRIOR ART CITED BY APPLICANT	Applicant				
(L	Ise Several Sheets If Necessary)	Michael R. Schwarz				
		Filing Date	Group			
		July 18, 2003	1616			
U.S. PATENT DOCUMENTS						

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
	AA	4,963,574	10/16/90	(Bel. to corresp. to FR Bachmann et al	2,611,114) 514	357	
	AB	4,988,712	01/29/91	(Bel. to corresp. to EP Shiokawa et al	259 738) 514	340	
	AC	5,001,138	03/19/91	(Bel. to corresp. to EP Shiokawa et al	192 060) 514	342	
	AD	5,032,589	07/16/91	(Bel. to corresp. to EP Shiokawa et al	386 565) 514	245	
	AE	5,034,404	07/23/91	Uneme et al	514	365	
	AF	5,034,524	07/23/91	(Bel. to corresp. to EP Shiokawa et al	386 565) 544	124	
	AG	5,039,686	08/13/91	Davies et al	514	341	<u></u>
	АН	5,049,571	09/17/91	(Bel. to corresp. to EP Gsell	302 833) 514	345	
	AI	5,051,434	09/24/91	(Bel. to corresp. to EP Kozo et al	383 091 & 514	EP 375 907) 357	
	AJ	5,063,236	11/05/91	(Bel. to corresp. to EP Gsell	306 696) 514	318	
· ·	AK	5,066,808	11/19/91	(Bel. to corresp. to EP Shiokawa et al	364 844) 514	231.5	

FOREIGN	PATENT	DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
İ						Yes	No*
 AL	2 382 615	04/19/01	(Bel. to corresp. to WO 01/26468) Canada				
 AM	3-255072	11/13/91	Japan (Abstract attached)				х
 AN	36 39 877	05/26/88	Germany (Abstract attached)				×
AO	37 12 307	10/20/88	Germany (Abstract attached)				_x
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	Arthropod Management Tests, 24, (month unavailable) 1999, pages 204-205, D.E. Bragg, J. Burns
AR	and J. Yenish, "Antagonism Between Herbicide and Insecticide in Spring Canola, 1998.
	Beltwide Cotton Conferences, Vol. 2, (month unavailable) 1997, pages 1171-1176, S.J. Stringer,
AS	H.R. Mitchell, ""Effect of Furadan/Disulfoton on Cotton Growth and Development"
	Proceedings of the Western Society of Weed Science, Volume 53, Papers Presented at the
AT	Annual Meeting, March 14-16, 2000, pages 30-31, P.J. Schneider, J.P. Yenish, D. Bragg John Burns, and "Antagonism of Insecticide Activity in Canola with Low Doses of Sulfonylurea Herbicides"
FYAMINER	DATE CONSIDERED

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EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 4 of 7
Serial No.

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	АА	5,084,467		01/28/92	(Bel. to corresp. to EP Shiokawa et al	383 091 & 514	EP 375 907) 357				
	АВ	5,166,164		11/24/92	(Bel. to corresp. to EP Nanjo et al	425 978) 514	357				
	AC	5,192,778		03/09/93	(Bel. to corresp. to EP Kodaka et al	455 000) 514	341				
	AD	5,204,359		04/20/93	(Bel. to corresp. to EP Shiokawa et al	383 091 & 514	EP 375 907) 332				
	AE	5,204,360 5,238,949 5,256,679		04/20/93	(Bel. to corresp. to EP Shiokawa et al	192 060) 514 383 091 & 514 471 372) 514	342				
	AF			08/24/93	(Bel. to corresp. to EP Shiokawa et al		EP 375 907) 327				
	AG			10/26/93	(Bel. to corresp. to EP Minamida et al		357				
	АН	5,264,584		11/23/93	(Bel. to corresp. to EP Kodaka et al	455 000) 548	332.5				
	AI	5,280,123		01/18/94	(Bel. to corresp. to EP Nanjo et al	464 830) 548	111				
	AJ 5,298,507 AK 5,384,324			03/29/94	(Bel. to corresp. to EP Shiokawa et al	192 060) 514	256				
				01/24/95	(Bel. to corresp. to EP Shiokawa et al	364 844) 514	365				
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Sheet 5 of 7

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		AA	5,405,961		04/11/95	(Bel. to corresp. to EP Nanjo et al	464 830) 544	243				
	-	АВ	5,428,032		06/27/95	(Bel. to corresp. to EP Shiokawa et al	192 060) 514	226.8				
		AC	5,461,167		10/24/95	(Bel. to corresp. to EP Shiokawa et al (Bel. to corresp. to EP	192 060) 548 192 060)	202				
		AD	5,580,889		12/03/96	Shiokawa et al (Bel. to corresp. to EP	514 471 372)	343				
		AE	5,696,256		12/09/97	Kando et al (Bel. to corresp. to EP	540 386 565)	463	 			
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		AH	5,750,704 Re 35,811		05/12/98	(Bel. to corresp. to EP Shiokawa et al	546 386 565 & 514	275.1 EP 375 907) 357				
		AI 5,852,012			12/22/98	(Bel. to corresp. to EP Maienfisch et al	580 553) 514	229.2				
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		AD	2003/0033631 A1		02/13/03		Bel. to corresp. to WO srar et al		279				
		AE	2003/0186813 A1		10/02/03		ershing et al		117				
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